

In Vitro Study of SK MEL Cells in
Medium containing Coenzyme Q10
After 48 Hour Incubation

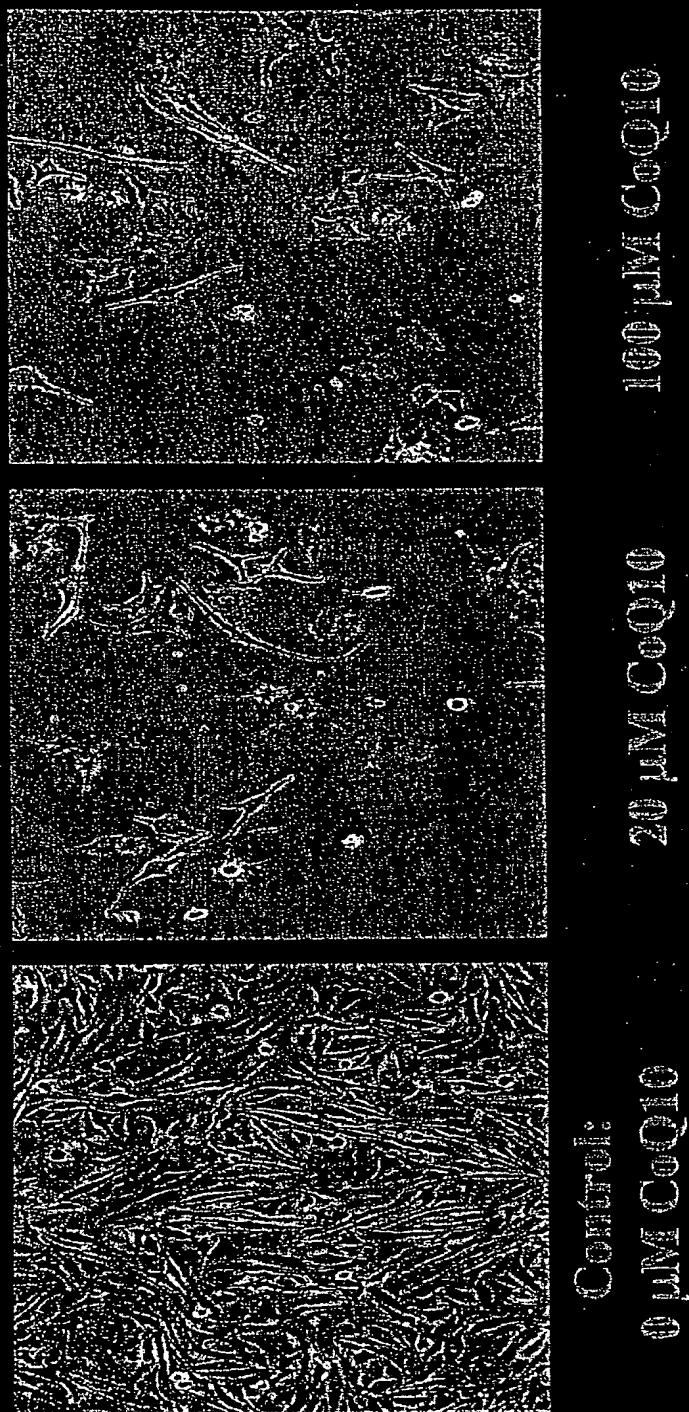
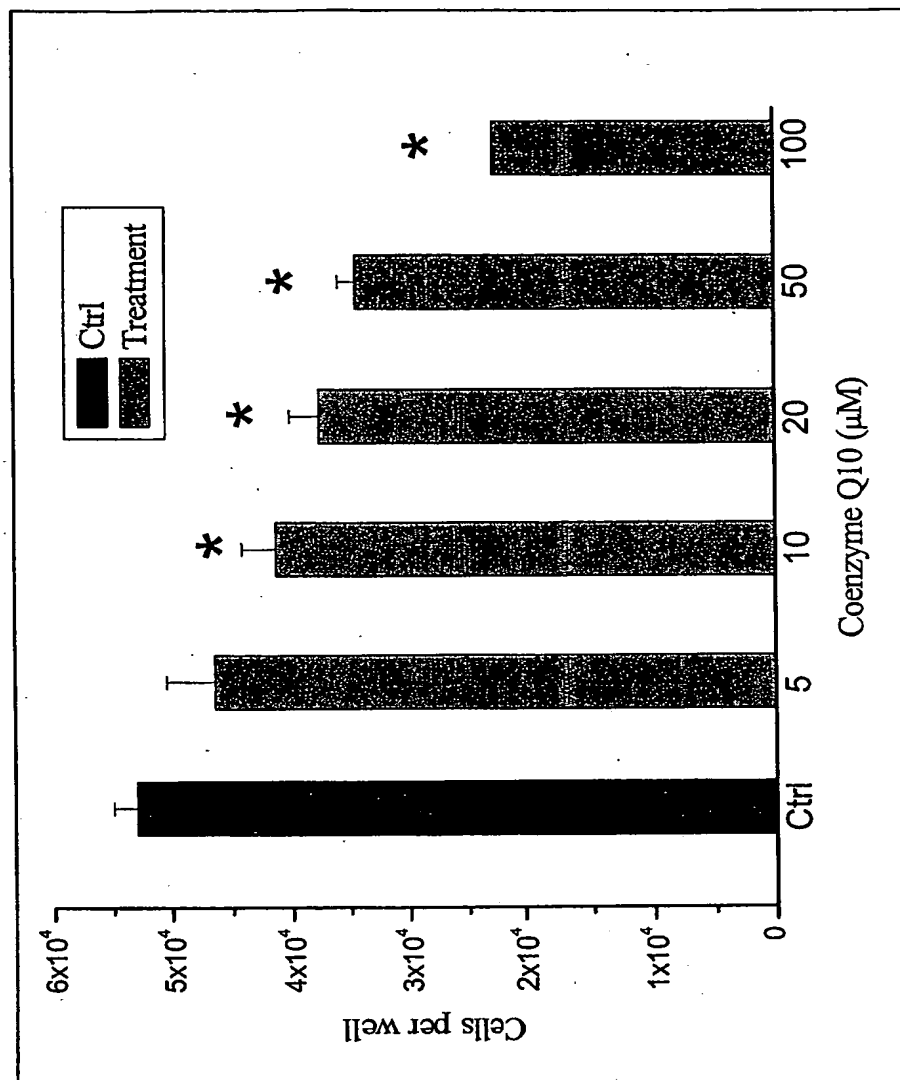


FIG. 1

The Effect of Coenzyme Q10 on Human Melanoma cell line SKMEL28

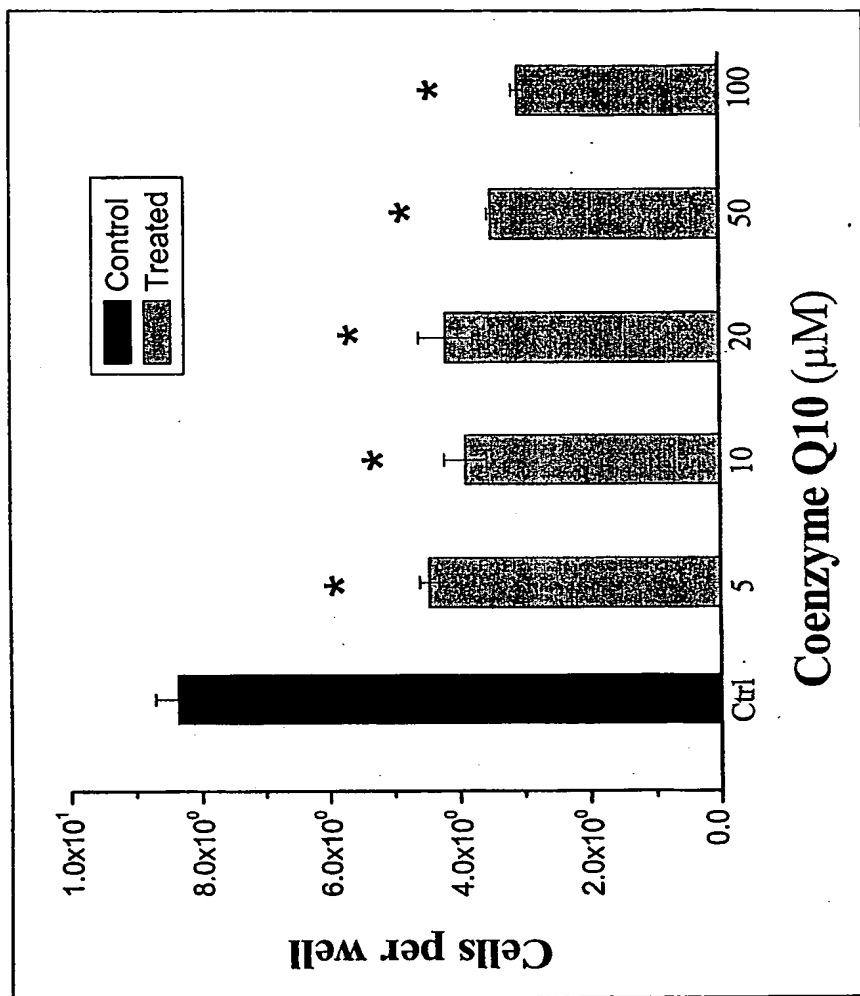


After 36hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 2

The Effect of Coenzyme Q10 on Human Melanoma cell line SKMEL28

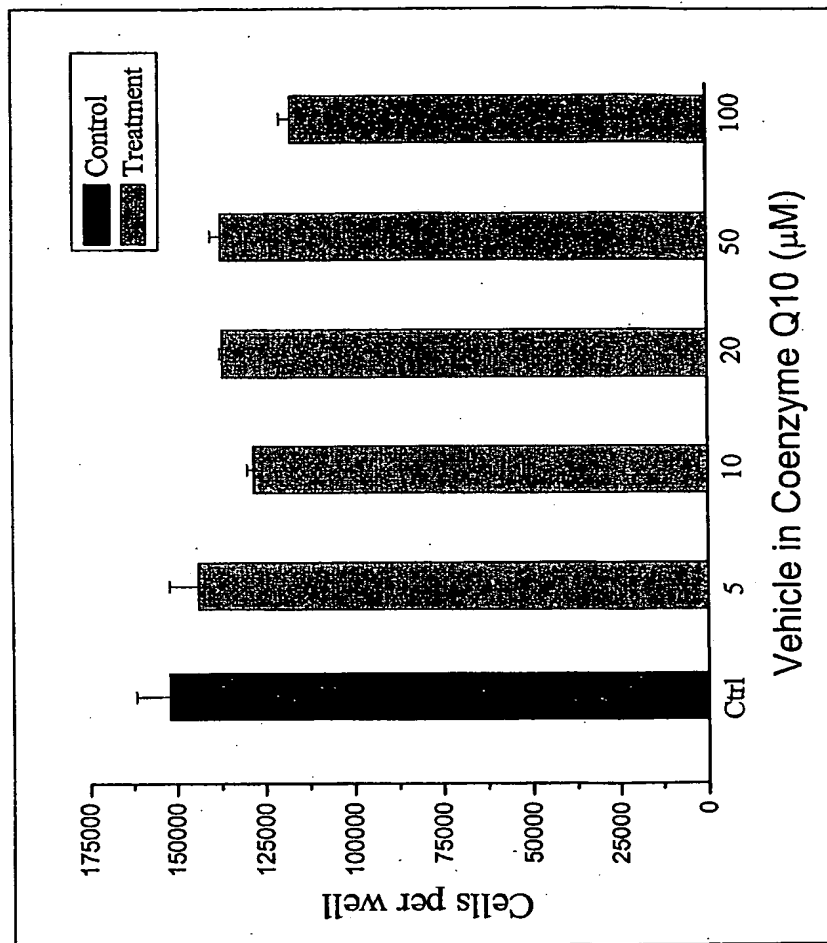


After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 3

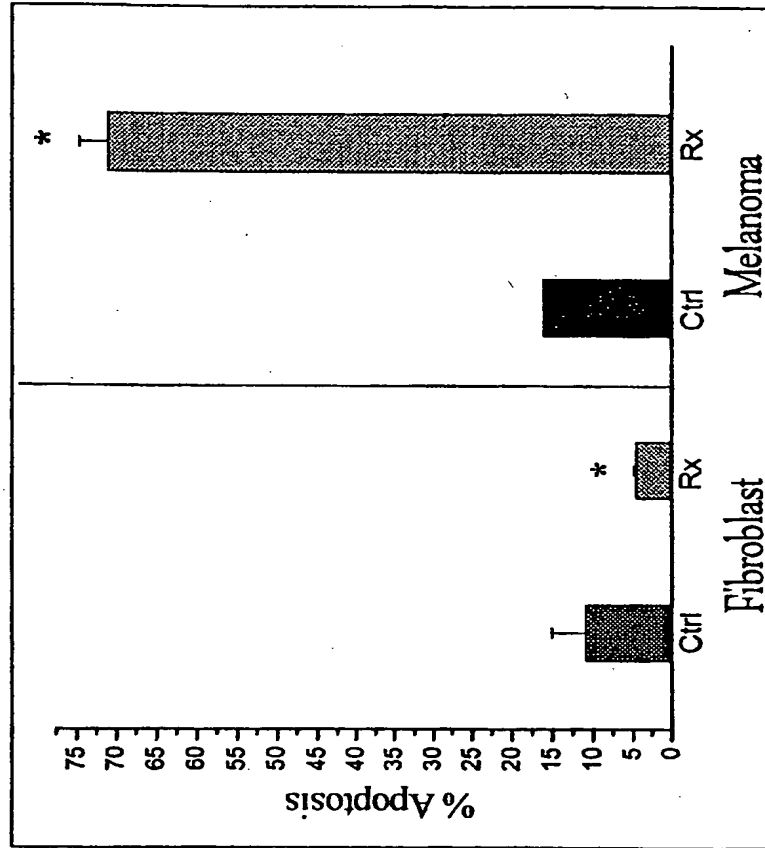
The Effect of Coenzyme Q10 Vehicle on Human Melanoma cell line SKMEL28



After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$ FIG. 4

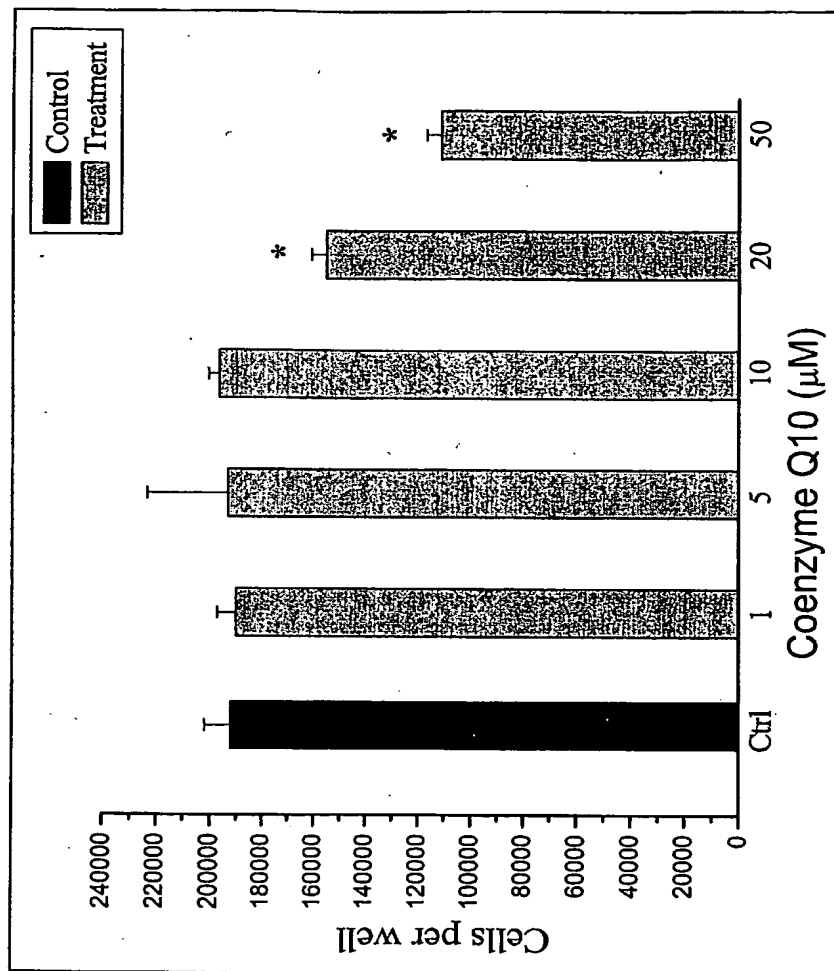
Effect of Coenzyme Q10 on Apoptosis in Human Melanoma and Fibroblast Cells – Annexin PE Assay



* Significant compared to Ctrl $P < 0.05$

FIG. 5

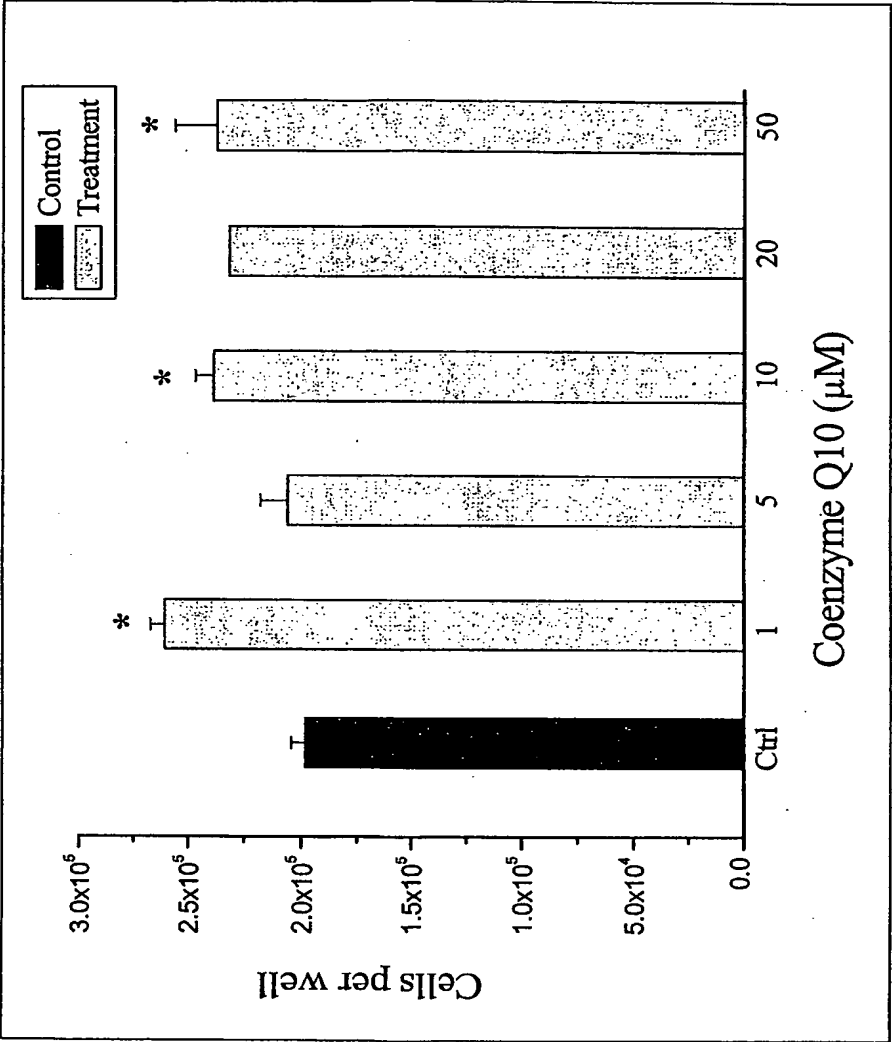
The Effect of Coenzyme Q10 on Squamous Carcinoma Cells



After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$ FIG. 6

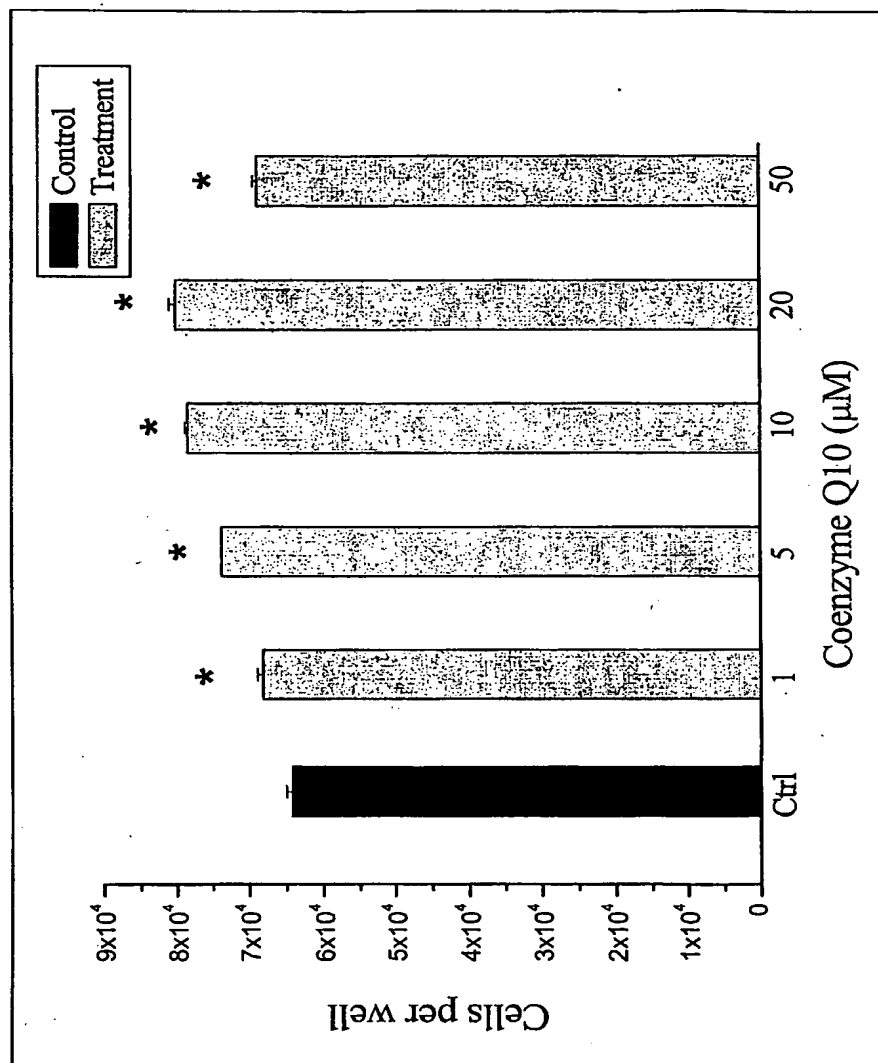
The Effect of Coenzyme Q10 on Human Neonatal Fibroblast



After 48hr Incubation
* Significant compared to Ctrl P<0.05

FIG. 7

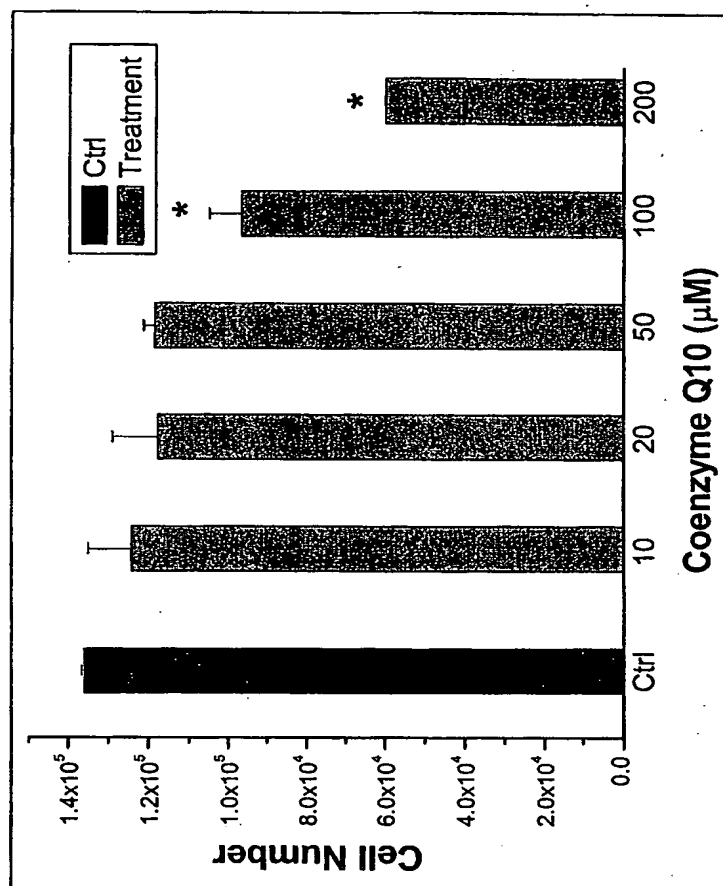
The Effect of Coenzyme Q10 on Human Neonatal Keratinocytes



After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$ FIG. 8

The Effect of Rx The Effect of Coenzyme Q10 on Human Breast Adenocarcinoma MCF-7 Cell line

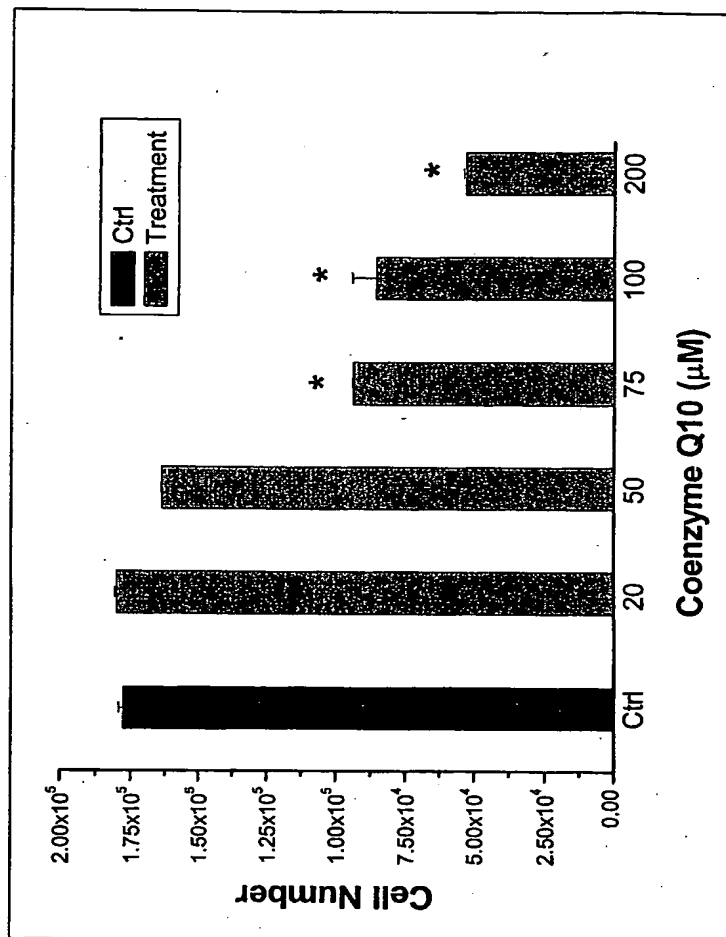


After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 9

The Effect of Rx The Effect of Coenzyme Q10 on Human Breast Adenocarcinoma MCF-7 Cell line



After 72hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 10



Appearance of Tumors on Treatment
Mouse vs. Control Mouse

FIG. 11



Mice Before Excision of Tumors

FIG. 12

SKMEL Tumors after 30d Treatment with Coenzyme Q10

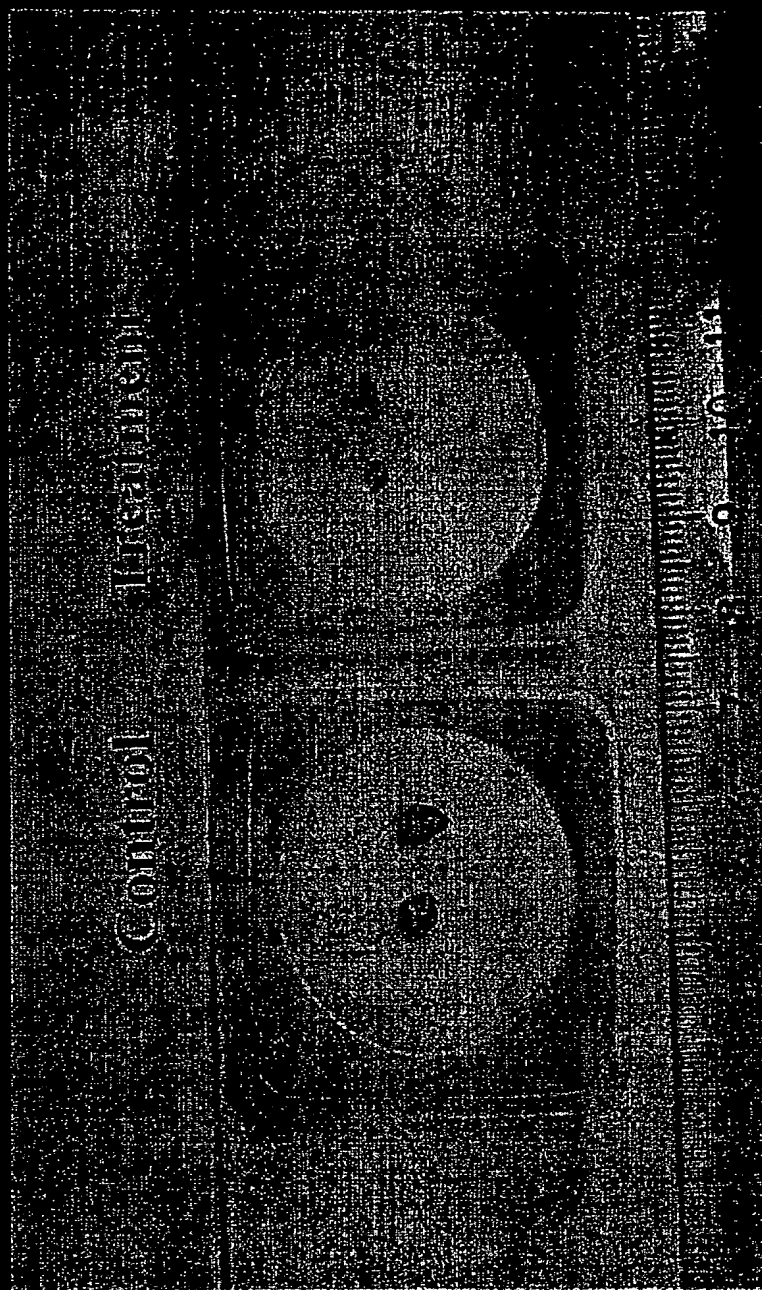
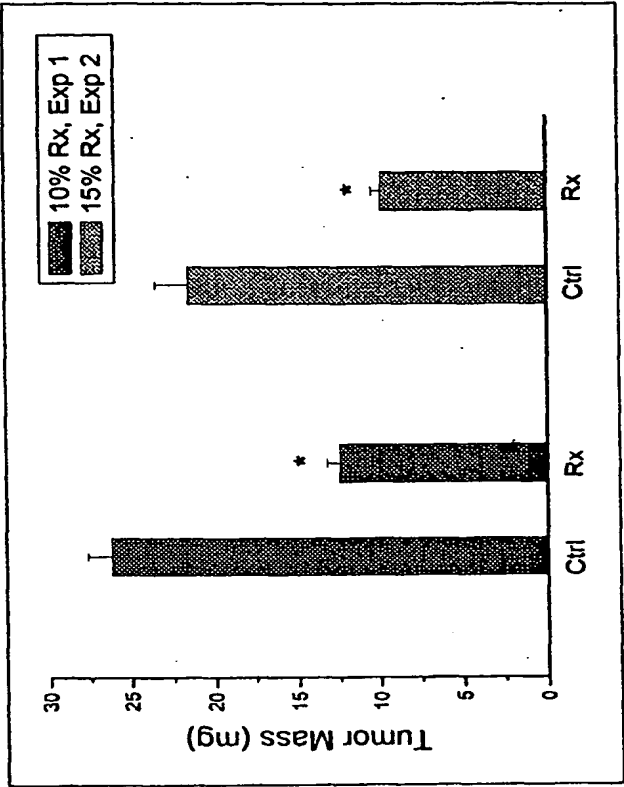


FIG. 13

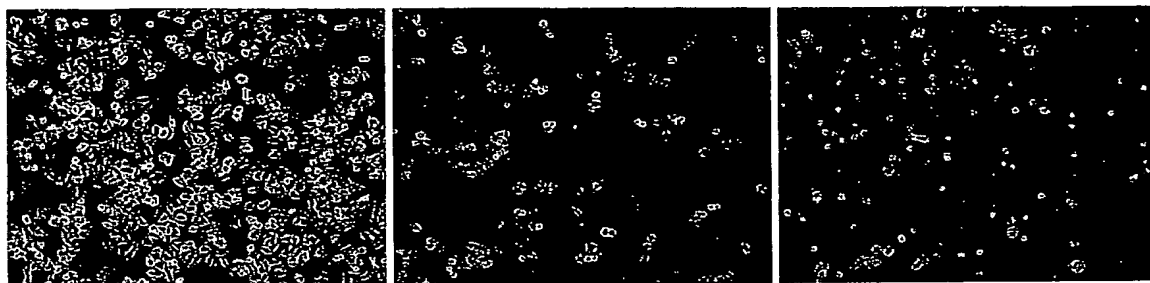
Effect of Topical CoQ10 on SKMEL28 Tumor Mass in Nude Mice



* Significant compared to Ctrl $P < 0.05$

FIG. 14

**In Vitro Study of Human Breast Adenocarcinoma Cell Line SK-BR-3
Incubated in Medium Supplemented with Coenzyme Q10
for a 72 Hour Period**



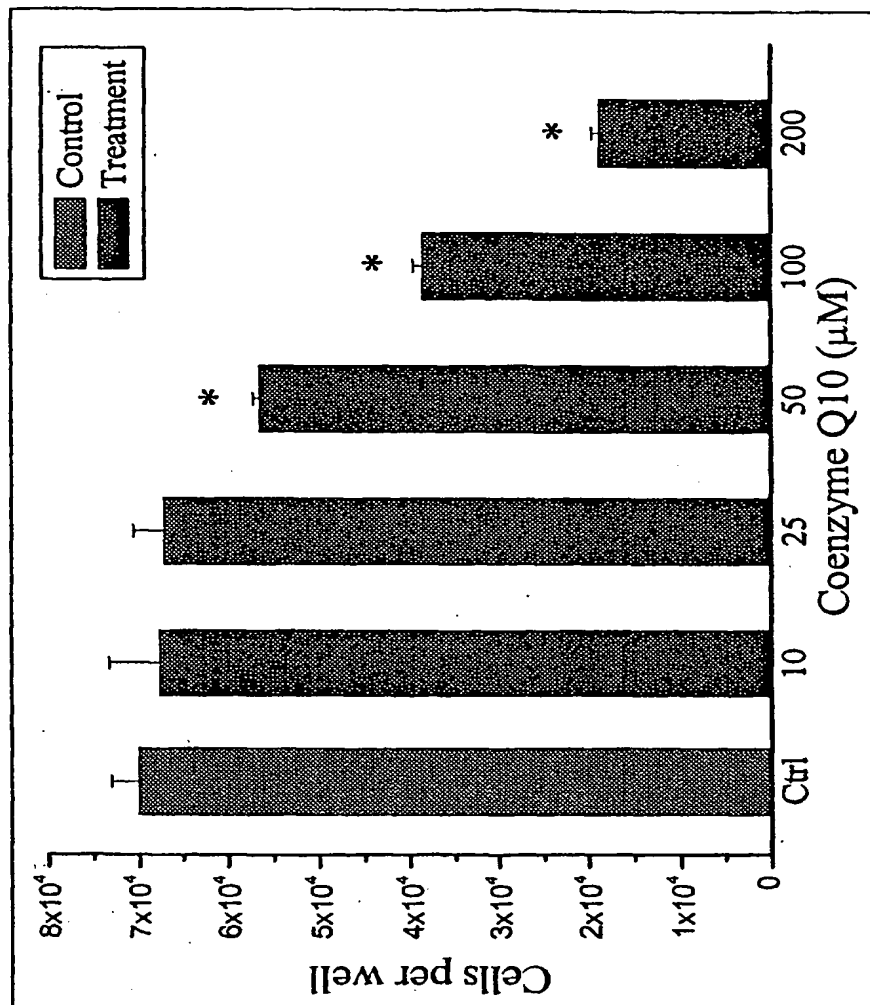
Control 0 μ M CoQ10

100 μ M CoQ10

200 μ M CoQ10

FIG. 15

The Effect of Coenzyme Q10 on Breast Cancer SK-BR-3 Cell Line

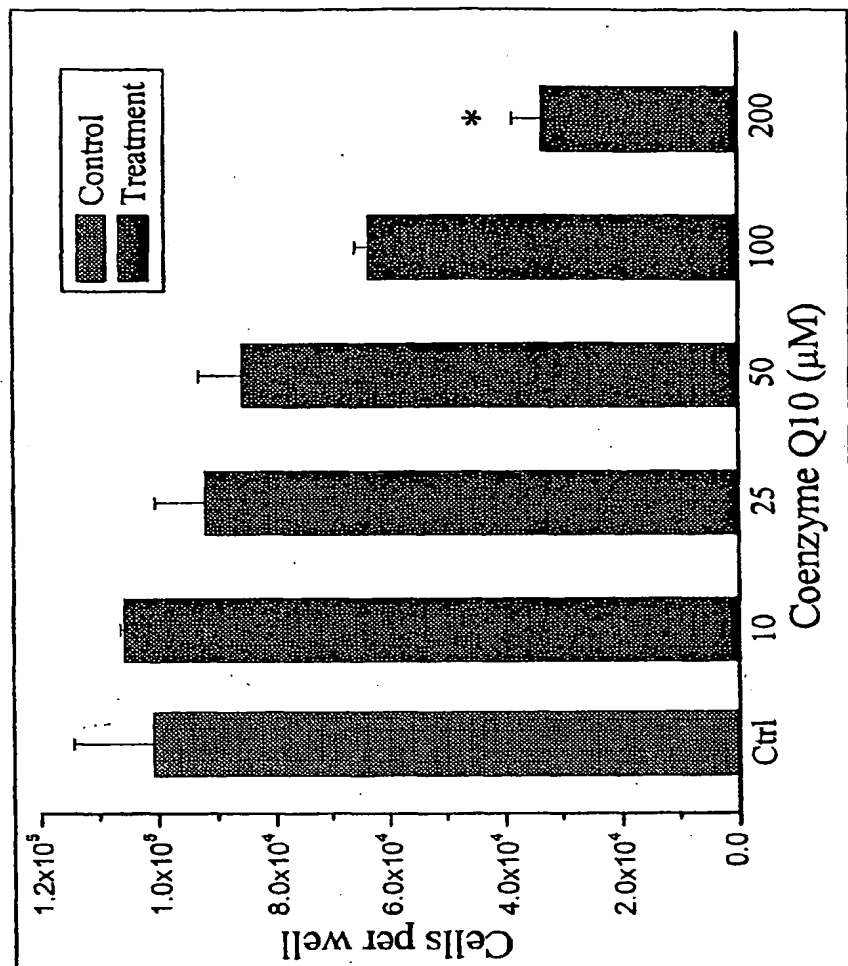


After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 16

The Effect of Coenzyme Q10 on Breast Cancer SK-BR-3 Cell Line

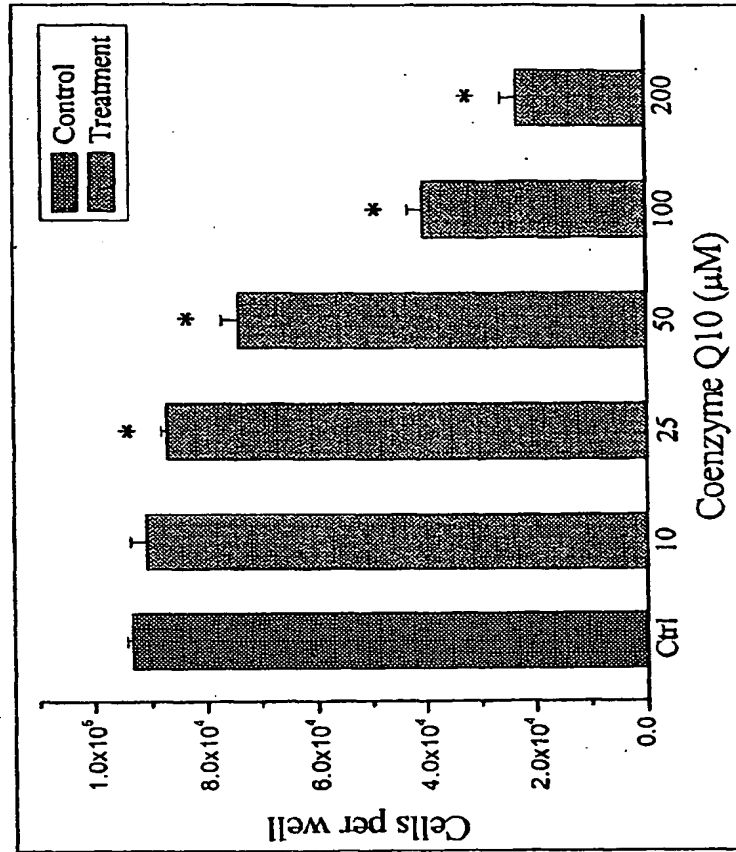


After 72hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 17

The Effect of Coenzyme Q10 on Breast Cancer MDA-MB-468 Cell Line

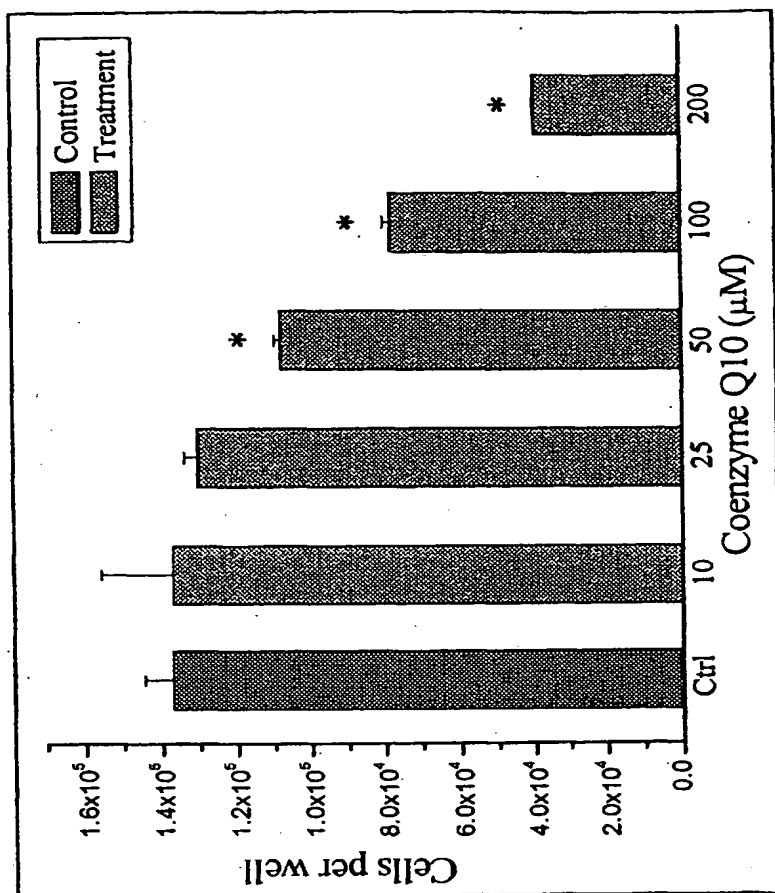


After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 18

The Effect of Coenzyme Q10 on Breast Cancer MDA-MB-468 Cell Line

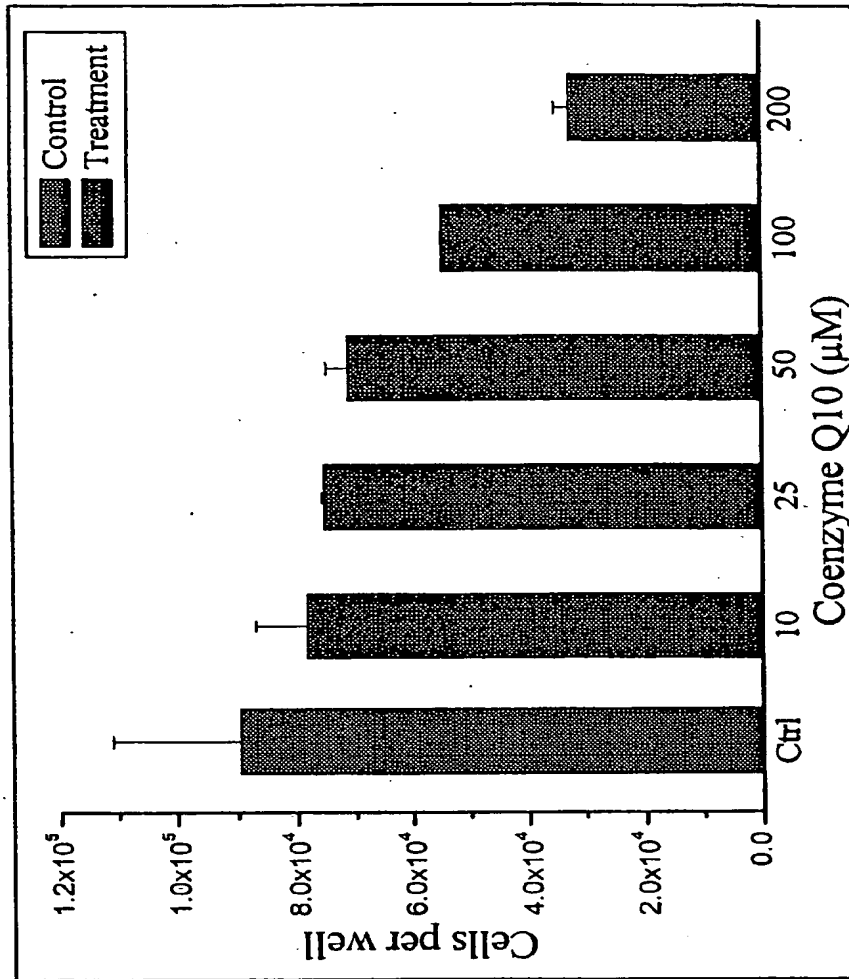


After 72hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 19

The Effect of Coenzyme Q10 on Breast Cancer BT-20 Cell Line

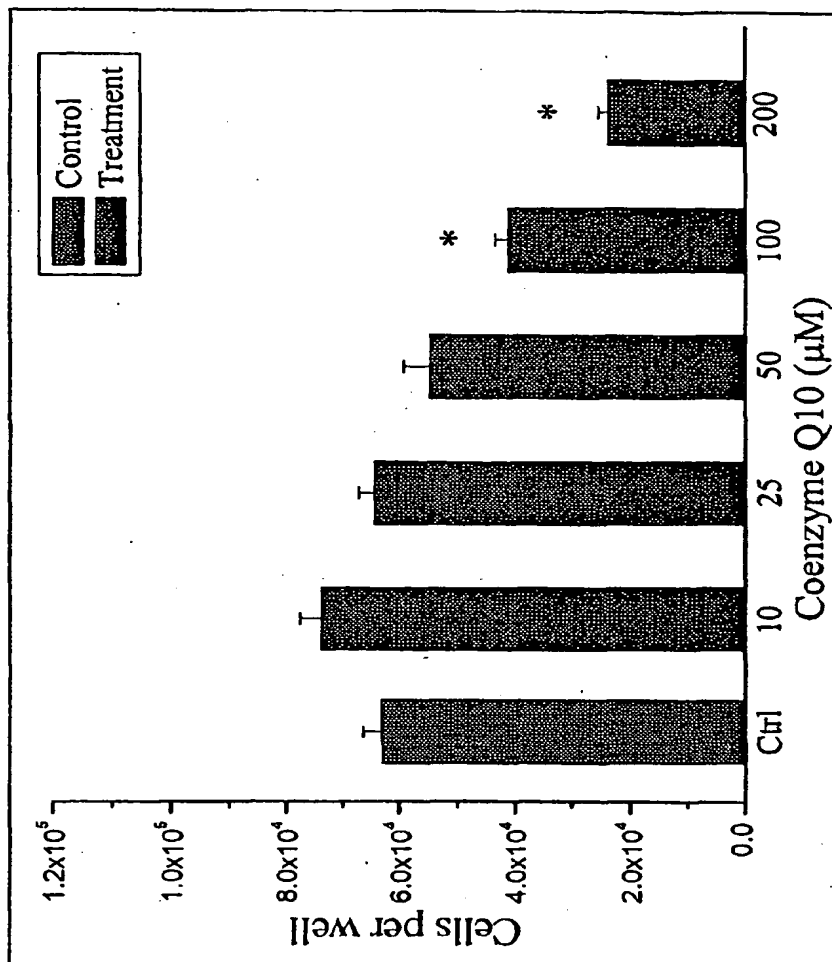


After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 20

The Effect of Coenzyme Q10 on Breast Cancer BT-20 Cell Line

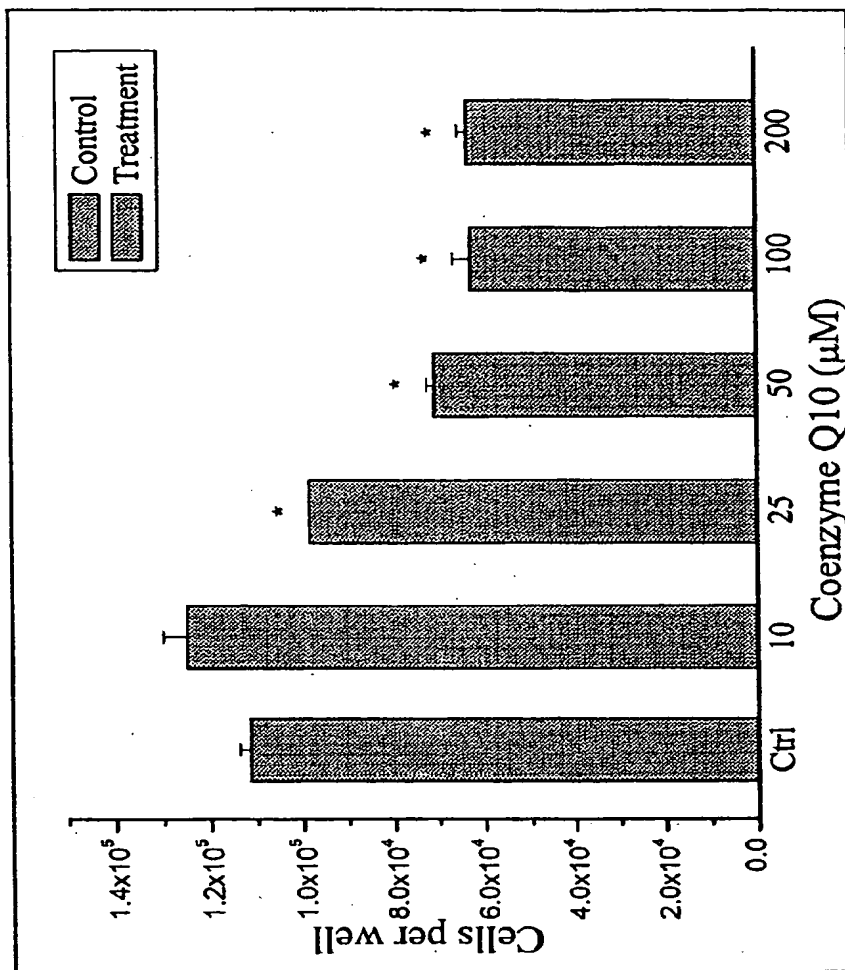


After 72hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 21

The Effect of Coenzyme Q10 on Liver Cancer Hep 3B Cell Line

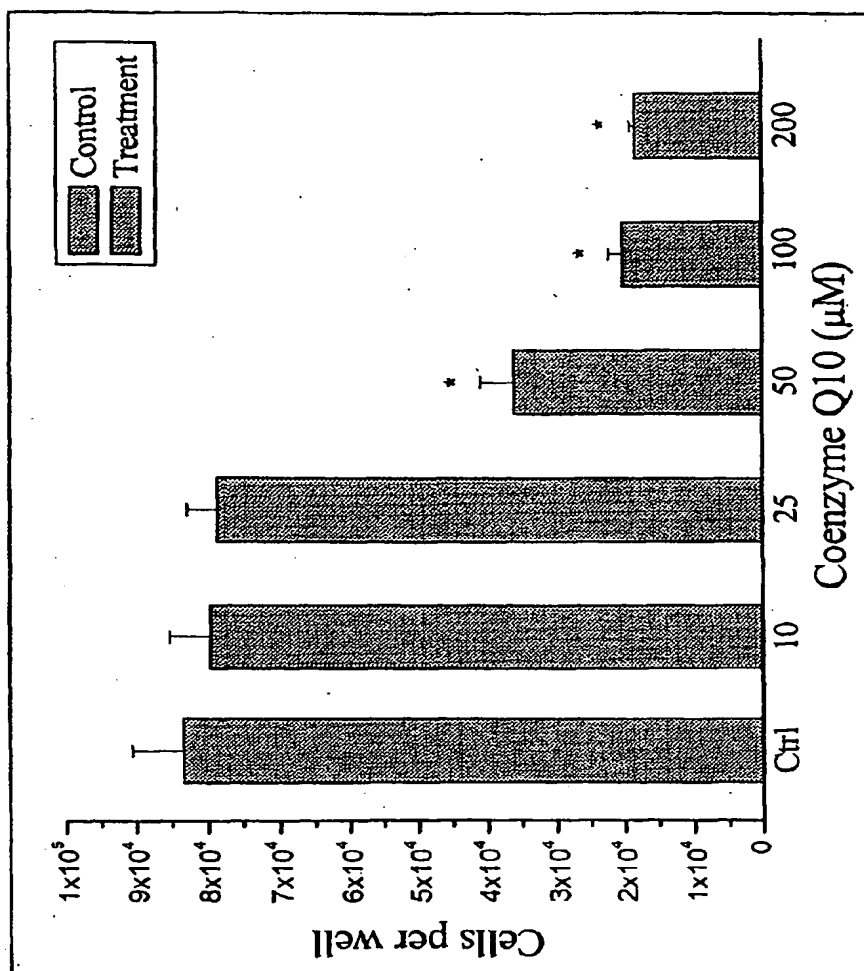


After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 22

The Effect of Coenzyme Q10 on Liver Cancer Hep 3B Cell Line

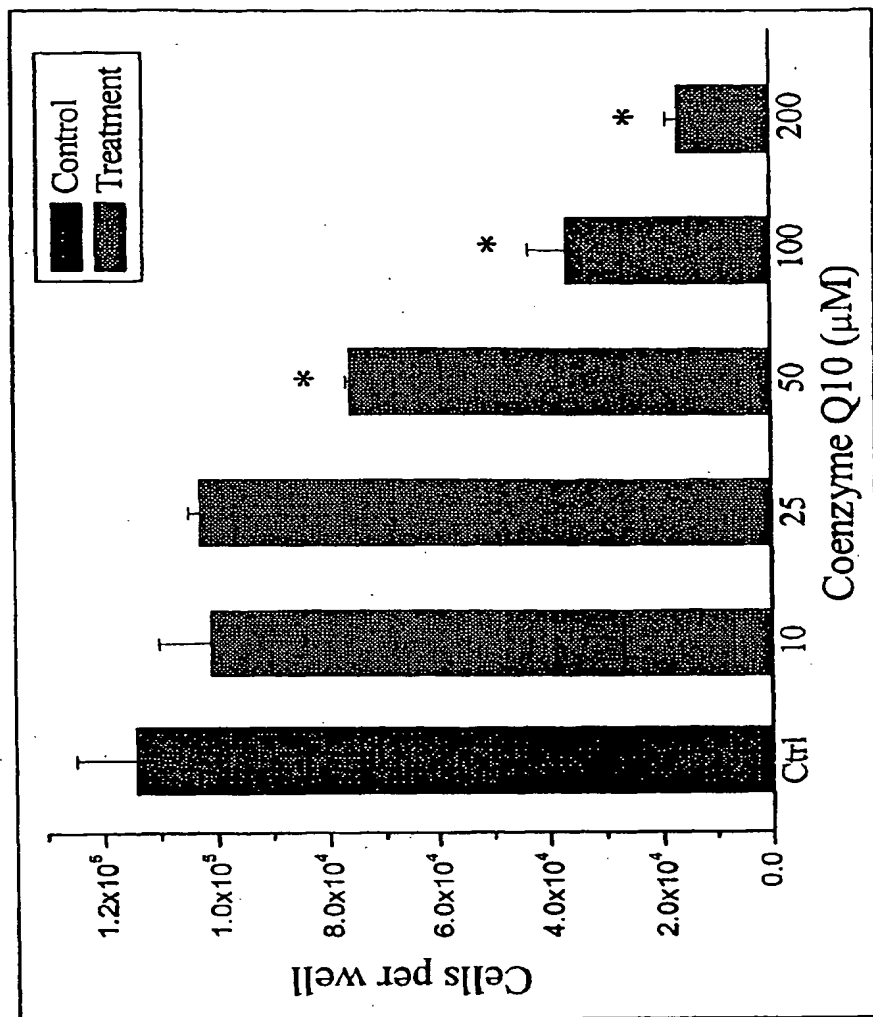


After 72hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 23

The Effect of Coenzyme Q10 on Osteosarcoma 143B Cell Line

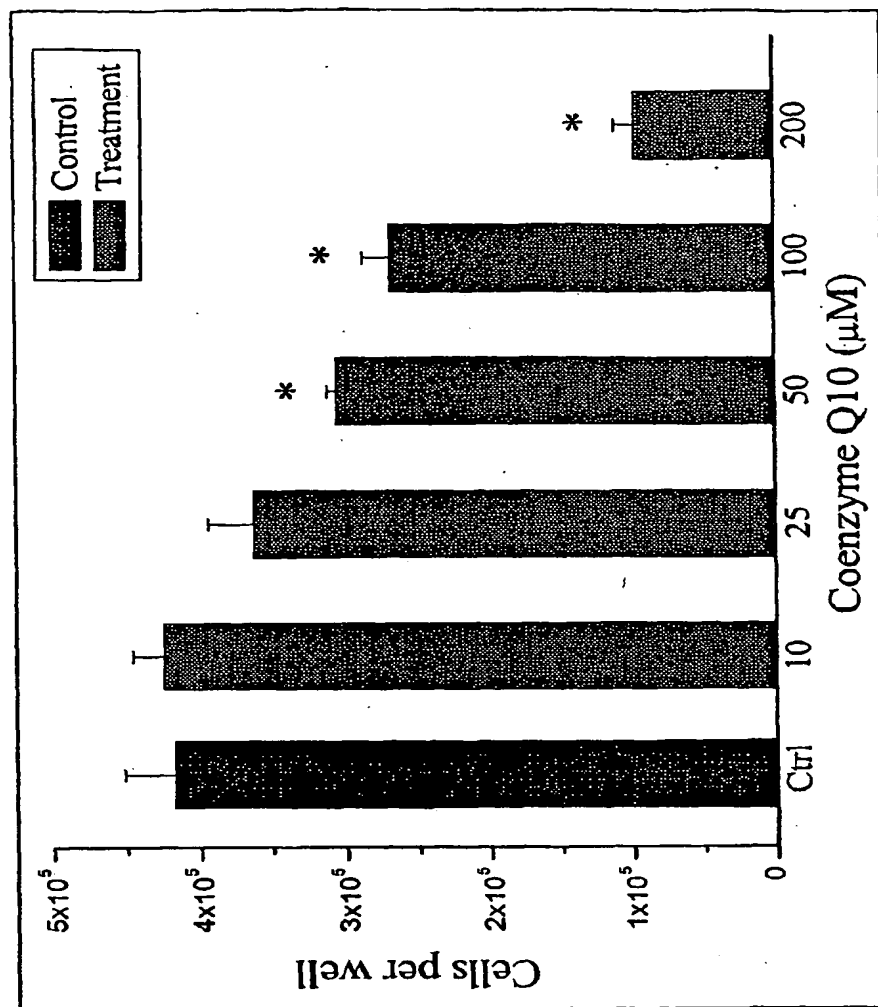


After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 24

The Effect of Coenzyme Q10 on Osteosarcoma 143B Cell Line

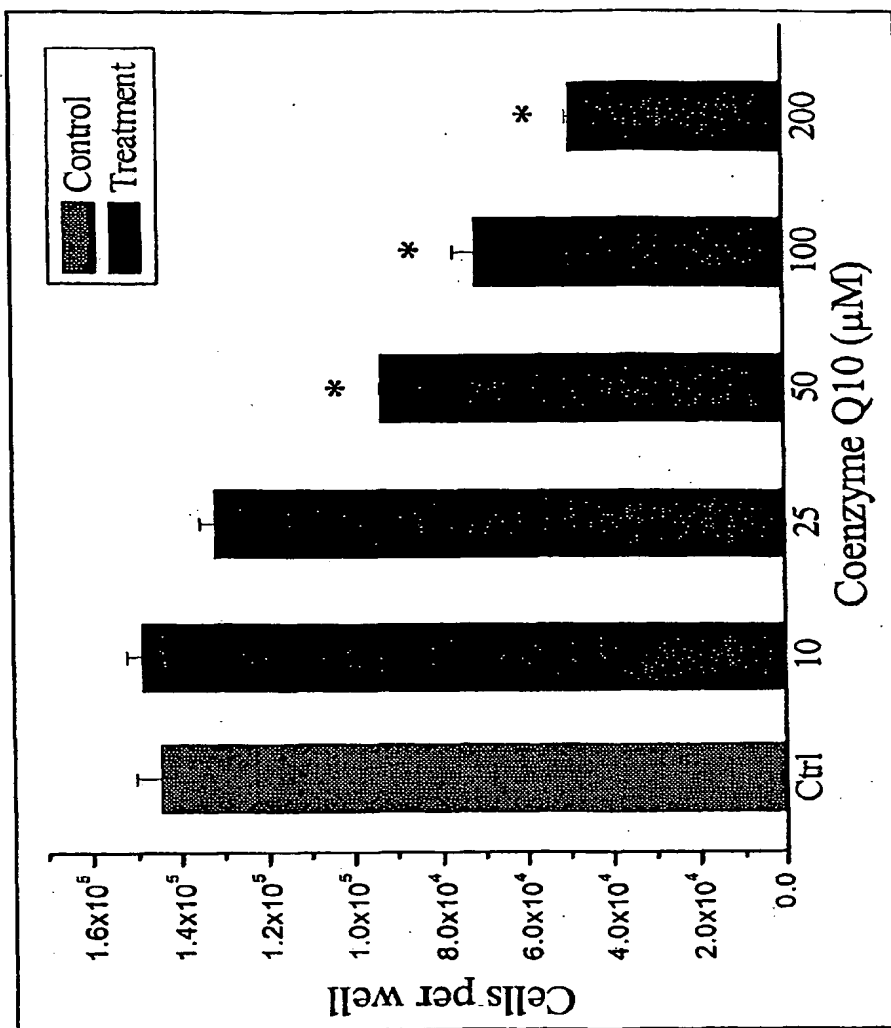


After 72hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 25

The Effect of Coenzyme Q10 on Prostate PC-3 Cancer Cell Line

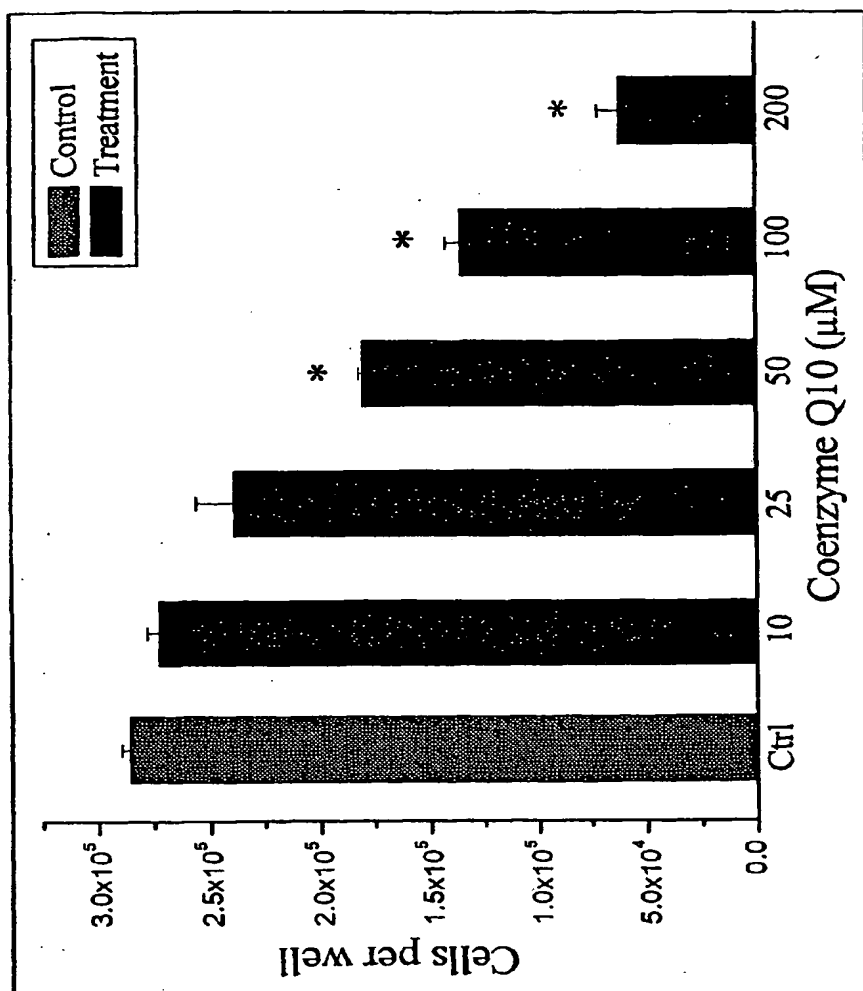


After 48hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 26

The Effect of Coenzyme Q10 on Prostate PC-3 Cancer Cell Line

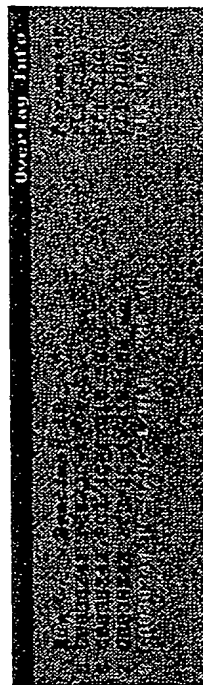
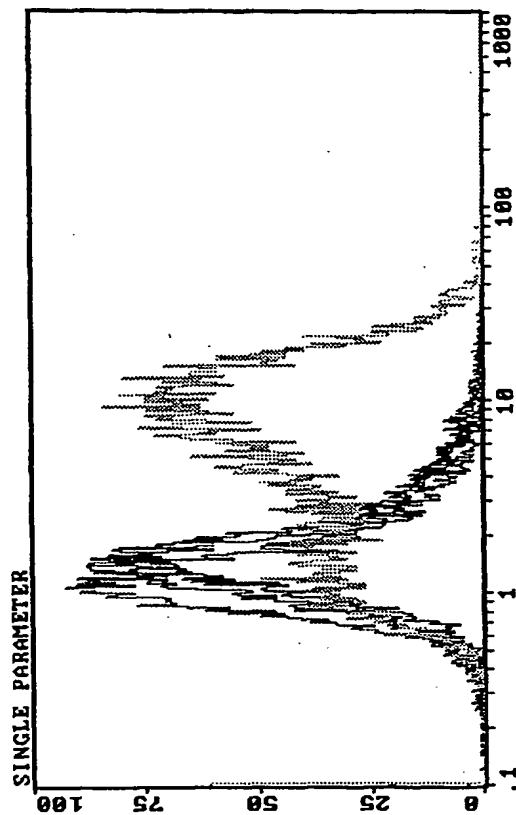


After 72hr Incubation

* Significant compared to Ctrl $P < 0.05$

FIG. 27

Q10 and Mitochondria permeability in PC-3 cells: JC-1 uptake



Log Green fluorescence

FIG. 28

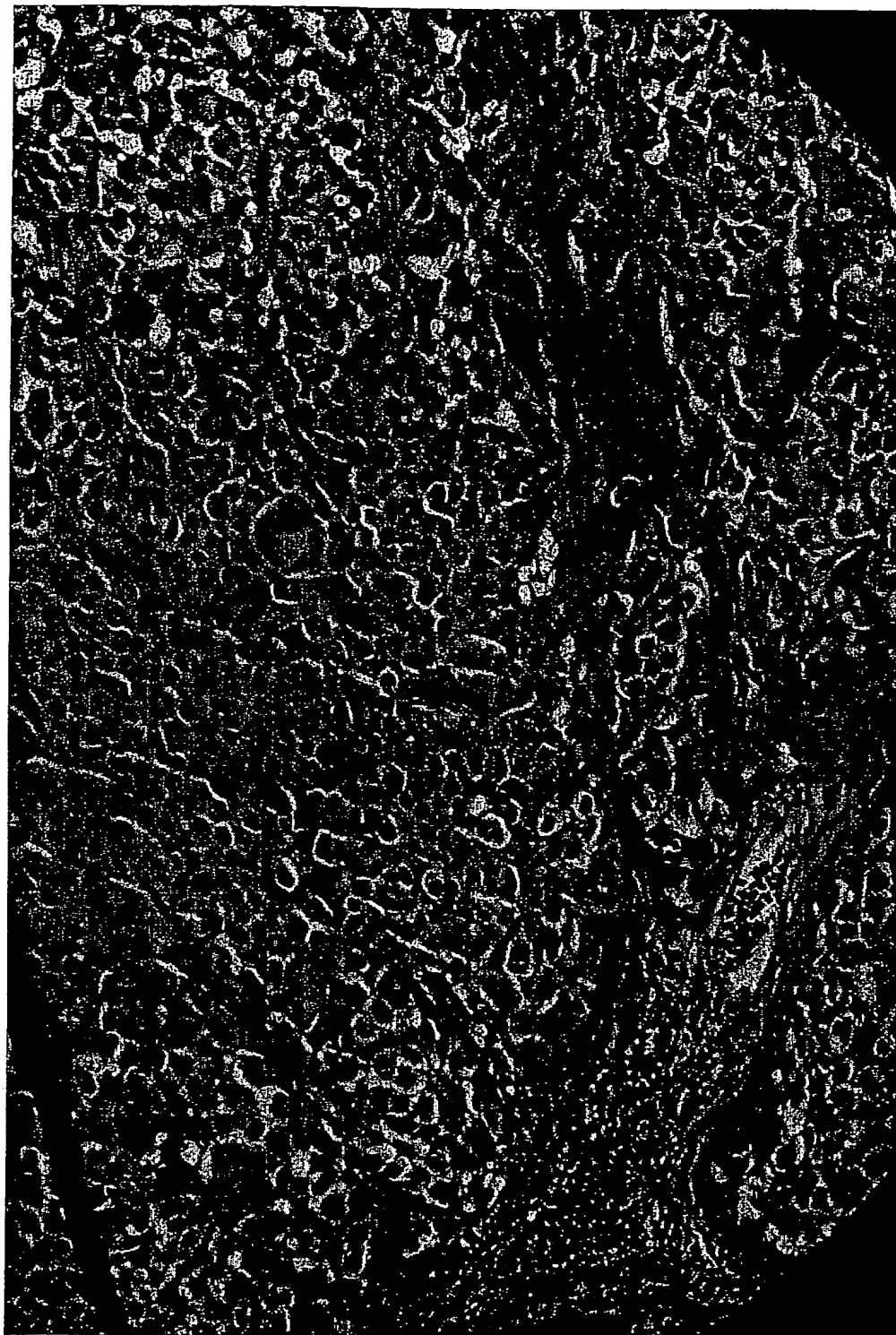


FIG. 29A

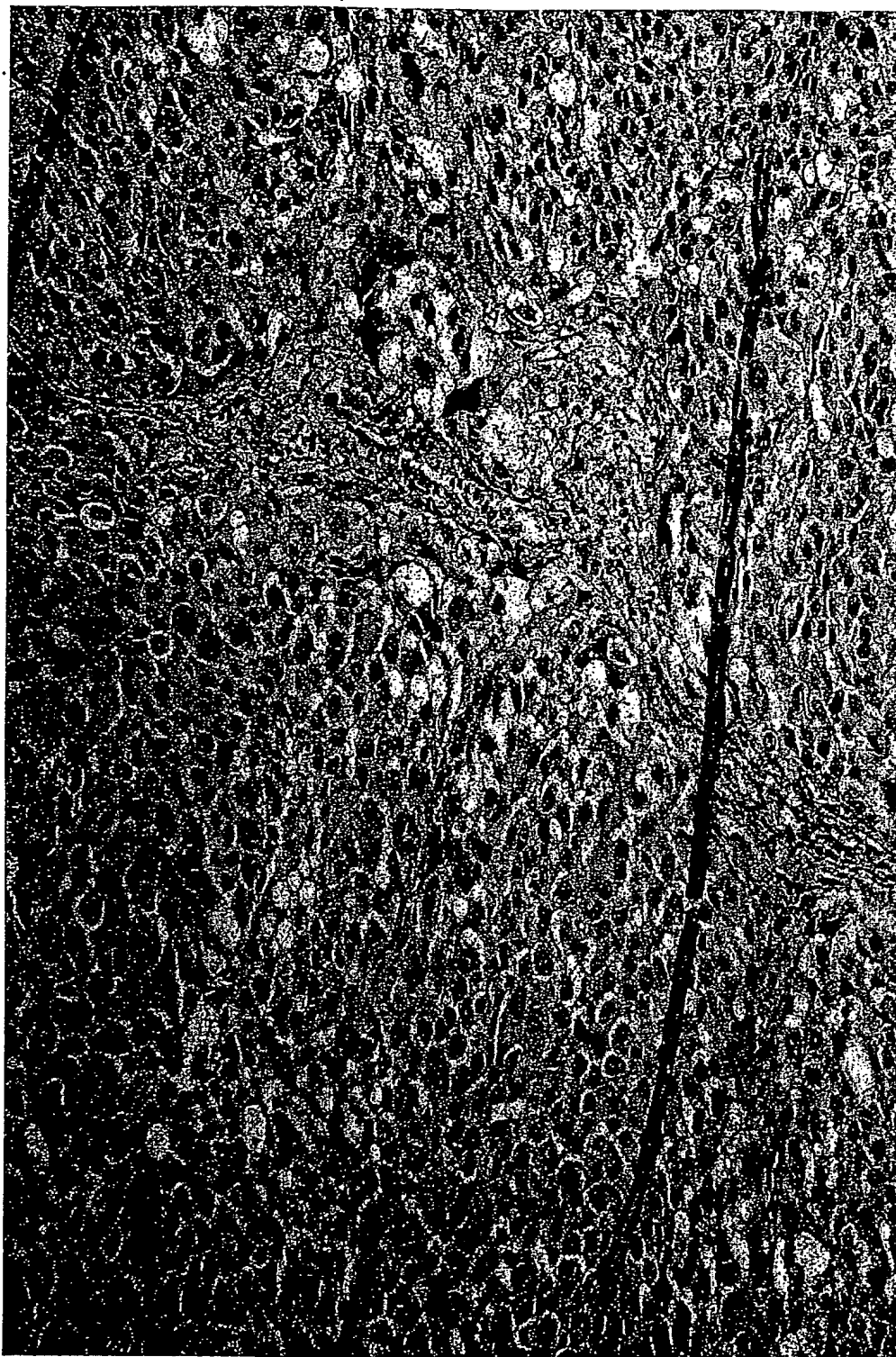


FIG. 29B